### PATENT COOPERATION TREATY

#### From the INTERNATIONAL SEARCHING AUTHORITY

To: JON L. ROBERTS ROBETS , ABOKHAIR & MARDULA, LLC 11800 SUNRISE VALLEY DRIVE SUITE 1000 RESTON, VA 20191	PCT  NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT OR THE DECLARATION  (PCT Rule 44.1)  Date of Mailing (day/month/year) 23 OCT 2003
Applicant's or agent's file reference	29 00 1 2000
2870-001CIP	FOR FURTHER ACTION See paragraphs 1 and 4 below
International application No. PCT/US03/21190	International filing date (day/month/year) 07 July 2003 (07.07.2003)
Applicant I2TELECOM INTERNATIONAL, INC.	07 July 2003 (07.07.2003)
1. The applicant is hereby notified that the international searce Filing of amendments and statement under Article 19: The applicant is entitled, if he so wishes, to amend the clai When? The time limit for filing such amendments is international search report.	-
Where? Directly to the International Bureau of WIPO 1211 Geneva 20, Switzerland, Facsimile No. For more detailed instructions, see the notes on the ac	(41-22) 740.14.35
2. The applicant is hereby notified that no international search Article 17(2)(a) to that effect is transmitted herewith.	a report will be established and that the declaration under
3. With regard to the protest against payment of (an) addition	onal fee(s) under Rule 40.2, the applicant is notified that:
	n transmitted to the International Bureau together with the rotest and the decision thereon to the designated Offices.  licant will be notified as soon as a decision is made.
4. Reminders	
applicant wishes to avoid or postpone publication, a notice of with	al application will be published by the International Bureau. If the international application, or of the priority claim, must and 90 bis.3, respectively, before the completion of the technical
examination must be filed if the applicant wishes to postpone the	of some designated Offices, a demand for international preliminary entry into the national phase until 30 months from the priority date in 20 months from the priority date, perform the prescribed acts for
In respect of other designated Offices, the time limit of 30 months	s (or later) will apply even if no demand is filed within 19 months.
See the Annex to Form PCT/IB/301 and, for details about the approximation Volume II, National Chapters and the WIPO Internet site.	olicable time limits, Office by Office, see the PCT Applicant's Guide,
Name and mailing address of the ISA/US	Authorized officer
Mail Stop PCT, Atn: ISA/US Commissioner for Patents	Authorized officer Seema Rao

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Form PCT/ISA/220 (April 2002)

(See notes on accompanying sheet)

Telephone No. 703-305-4750

## PATENT COOPERATION TREATY

# PCT

### INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or 2870-001CIP	gagent's file reference	FOR FURTHER ACTION		eation of Transmittal of International Search Report T/ISA/220) as well as, where applicable, item 5
International a PCT/US03/21	application No. 190	International filing date (day/mon 07 July 2003 (07.07.2003)		(Earliest) Priority Date (day/month/year) 05 July 2002 (05.07.2002)
Applicant I2TELECOM	INTERNATIONAL, INC.			
applicant acco	ording to Article 18. A co	py is being transmitted to the Inte	ernational	
a. W		the international search was carried, unless otherwise indicated under		e basis of the international application in the
b. W	Authority (Rule 23.1(b)). ith regard to any nucleotide arch was carried out on the	e and/or amino acid sequence disc basis of the sequence listing:		e international application furnished to this e international application, the international
		al application in written form. national application in computer rea	adable form	n.
	furnished subsequently to th	is Authority in written form.		
	furnished subsequently to th	is Authority in computer readable	form.	
	the statement that the subsectinternational application as		listing doe	s not go beyond the disclosure in the
	the statement that the inform been furnished.	nation recorded in computer readab	le form is	identical to the written sequence listing has
2.	Certain claims were found	unsearchable (See Box I).		
	Unity of invention is lacking	ng (See Box II).		
	ard to the title,	to the state of		
	the text is approved as subm			
<u> </u>	the text has been established	by this Authority to read as follow	vs:	
5. With reg	ard to the abstract,			
	the text is approved as subm	itted by the applicant.		
1				y as it appears in Box III. The applicant ch report, submit comments to this
6. The figur	re of the drawings to be pul	blished with the abstract is Figure l	No. <u>1</u>	
<u> </u>	as suggested by the applican	ıt.		None of the figures
1	because the applicant failed	to suggest a figure.		
1	because this figure better ch	aracterizes the invention.		

Form PCT/ISA/210 (first sheet) (July 1998)

#### INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/21190

		<del>-</del>			
Box III	TEXT OF THI	$\mathbf{E}$ ABSTRACT	(Continuation of Iter	m 5 of the first shee	t)

The technical features mentioned in the abstract do not include a reference sign between parentheses (PCT Rule 8.1(d)).

A system and method for implementing large and/or multiple telecommunication protocols utilizing memory-limited processors. Telecommunication protocols are expressed as virtual machine instructions defining a finite state machine. A telecommunication protocol engine (100) implements the telecommunication protocols using a virtual machine (125) operating under the control of a CPU (120). A telephony gateway (600) comprising a telecommunication protocol engine (610, 650, 640) interfaces with a communication device and a packet switched network. A network of telephony gateways (720, 730) communicating with a provider gateway (703, 705) facilitates communication over a packet switcher network. A call placed by a calling telephony gateway to receiving device on the same network or another network is routed according to a prefix in a telephone code sent by the calling telephony gateway.

Form PCT/ISA/210 (continuation of first sheet(2)) (July 1998)

INTERNATIONAL SEARCH REPORT	PC1/US03/21190
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Continuation of B. FIELDS SEARCHED Item 3: EAST	
search terms: telecommunication protocol engine, microprocessor flash memory, virtual machine, template state data, SIP H.323, STUN, DHCP, I/O port, serial, #, dialing code, selected telecommunication protocol, sharing signal, billing.	CPU random access memory RAM, firmware, parallel data bus, service provider gateway, 777, *,
	*

Form PCT/ISA/210 (second sheet) (July 1998)

### INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/21190

A. IPC( US C Accord	(7) C <b>L</b>	SSIFICATION OF SUBJECT MATTER  : H04L 12/28, 12/56, 12/66; H04J 3/16, 3/22  : 370/254, 352, 401, 402, 421, 465, 466, 467, International Patent Classification (IPC) or to both		249, 250, 253
В.	FIEL	DS SEARCHED		
		cumentation searched (classification system followed 70/254, 352, 401, 402, 421, 465, 466, 467, 469; 70		), 253
Docum	nentatio	on searched other than minimum documentation to the	e extent that such documents are included	d in the fields searched
		ata base consulted during the international search (na ontinuation Sheet	me of data base and, where practicable, s	earch terms used)
		UMENTS CONSIDERED TO BE RELEVANT		
Catego	ory *	Citation of document, with indication, where a		Relevant to claim No.
Y		US 6,118,768 A (BHATIA et al) 12 September 200 line 28, col. 14 lines 25-58, col. 27 line 66 to col. lines 12-24.		1-36, 43
Y		US 6,256,778 B1 (OLIVER) 03 July 2001 (03.07.2	2001), col. 3 lines 45-58.	1-36, 43
X		US 5,402,481 A (WALDMAN) 28 March 1995 (28 line 18, col. 24 lines 18-34, col. 18 lines 9-17.		37-41
X		US 2002/0052965 A1 (DOWLING) 02 May 2002 (0094.	02.05.2002), paragraph 0021, 0043,	42
A,I	P	US 2002/0191621 A1 (JHA) 19 December 2002, se	e entire document.	1-43
⊠ F	urther	documents are listed in the continuation of Box C.	See patent family annex.	
*	Sp	pecial categories of cited documents:	"T" later document published after the int	emational filing date or
		defining the general state of the art which is not considered to icular relevance	priority date and not in conflict with a understand the principle or theory un-	the application but cited to
"E" ea	•	plication or patent published on or after the international filing	"X" document of particular relevance; the considered novel or cannot be considered when the document is taken along	ered to involve an inventive
to		which may throw doubts on priority claim(s) or which is cited in the publication date of another citation or other special reason (ed)	"Y" document of particular relevance; the considered to involve an inventive ste combined with one or more other sucl combination being obvious to a person	p when the document is h documents, such
		referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent	
Pr	ciority d	published prior to the international filing date but later than the		
		ctual completion of the international search	Date of mailing of the international sear	OCT 2003
		2003 (24.09.2003) illing address of the ISA/US	Authorized officer	001 2000
Marine 9		Stop PCT, Attn: ISA/US	Addition of the state of the st	- Zonan
	Com	missioner for Patents	Seema Rao	10 ha
		. Box 1450 andria, Virginia 22313-1450	Telephone No. 703-305-4750	
Facsim		. (703)305-3230		•

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#### INTERNATIONAL SEARCH REPORT

C. (Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT			
ategory *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim N	
A	US 5,987,103 A (MARTINO) 16 November 1999 (16.11.1999), see entire document.	1-43	
	No.		